

S/N 10/727,240

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APR 09 2007**In the Claims**

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1. (Previously Presented) A processor-readable medium comprising processor-executable instructions for generating a PDF (portable document format) document from a PPML (personalized print markup language) document, the processor-executable instructions comprising instructions for:

parsing structures within the PPML document;

generating a PDF document tree;

interpreting the parsed structures from the PPML document onto locations on the PDF document tree; and

configuring a PDF document according to the PDF document tree.

2. (Previously Presented) The processor-readable medium of claim 1, additionally comprising instructions for:

printing the PDF document.

3. (Previously Presented) A processor-readable medium as recited in claim 1, wherein interpreting the parsed structures comprises instructions for:

resolving, for objects within the PPML (personalized print markup language) document, a PPML SOURCE_TYPE class; and

translating the objects according to the PPML SOURCE_TYPE class.

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1 4. (Previously Presented) A processor-readable medium as recited in
2 claim 1, wherein interpreting the parsed structures comprises instructions for:

3 un-marshalling a PPML instance, when a PPML (personalized print markup
4 language) tag refers to an external object; and
5 embedding the external object into the PDF document.
6

7 5. (Previously Presented) A processor-readable medium as recited in
8 claim 4, wherein the external object to which the PPML (personalized print
9 markup language) tag refers includes fonts and images.
10

11 6. (Previously Presented) A processor-readable medium as recited in
12 claim 1, wherein interpreting the parsed structures comprises instructions for:

13 resolving references within the parsed structures into PDF (portable
14 document format) assets; and
15 incorporating the PDF assets into the PDF document.
16

17 7. (Previously Presented) A processor-readable medium as recited in
18 claim 6, wherein resolving references comprises instructions for:

19 resolving an image asset into an InputSource object using a PPML
20 (personalized print markup language) structure; and
21 incorporating the image asset into the PDF document.
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1 8. (Previously Presented) A processor-readable medium as recited in
2 claim 7, wherein the PPML (personalized print markup language) structure
3 comprises:

4 <SOURCE Format="image/jpeg" Dimensions "dim1 dim2">

5 <EXTERNAL_DATA_ARRAY Src="filename.jpg"/>

6 </SOURCE>.

7
8 9. (Previously Presented) A processor-readable medium as recited in
9 claim 1, wherein interpreting the parsed structures comprises instructions for:

10 resolving assets within the parsed structures into objects; and

11 incorporating the objects into the PDF (portable document format)
12 document.

13
14 10. (Previously Presented) A processor-readable medium as recited in
15 claim 9, wherein resolving assets comprises instructions for:

16 using a PPML (personalized print markup language) structure to translate
17 an asset into an iText font representing a TTF font.

18
19 11. (Previously Presented) A processor-readable medium as recited in
20 claim 1, wherein interpreting the parsed structures comprises instructions for:

21 reutilizing PPML (personalized print markup language) global objects
22 found within the PPML document with a PPML structure, wherein the PPML
23 global objects are configured as REUSABLE_OBJECT_TYPE.

24

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1 12. (Previously Presented) A processor-readable medium as recited in
2 claim 1, wherein interpreting the parsed structures comprises instructions for:

3 locating PPML (personalized print markup language) global impositions
4 when parsing the structures within the PPML document; and
5 reutilizing the PPML global impositions.

6
7 13. (Previously Presented) A processor-readable medium as recited in
8 claim 12, wherein reutilizing PPML (personalized print markup language) global
9 impositions comprises instructions for:

10 reutilizing IMPOSITION_TYPE instances.

11
12 14. (Previously Presented) A system for converting a PPML
13 (personalized print markup language) document into a PDF document,
14 comprising:

15 a first component, operable on a processor, to parse structures and tag items
16 within the PPML document;

17 a second component, operable on the processor, to generate a PDF
18 document tree; and

19 a third component, operable on the processor, to translate the tagged items
20 within the PPML document, and to locate the translated items on the PDF
21 document tree.

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1 15. (Previously Presented) The system of claim 14, additionally
2 comprising:

3 a forth component to un-marshal PPML (personalized print markup
4 language) instances of external objects for embedding within the PDF document
5 tree.

6
7 16. (Previously Presented) The system of claim 14, wherein the forth
8 component comprises:

9 a SourceResolver to resolve references into assets for attachment to the
10 PDF (portable document format) document tree;

11 a FontResolver Interface to resolve fonts for access by the PDF document;

12 an OccurrenceStore Interface to reutilize PPML (personalized print markup
13 language) global objects for access by the PDF document; and

14 an ImpositioningStore to reutilize PPML global impositions for access by
15 the PDF document.

16
17 17. (Previously Presented) The system of claim 14, additionally
18 comprising:

19 a fourth component to resolve PPML SOURCE_TYPE class of the
20 structures within the PPML (personalized print markup language) document.

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1 **18.** (Original) The system of claim 14, wherein the third component
2 translates the items tagged as a function of a type associated with each of the items
3 tagged.

4
5 **19.** (Previously Presented) The system of claim 14, wherein the third
6 component is configured to translate a PDF (portable document format) object
7 within a PdfTemplate defined as a function of an item type of the tagged items
8 found during parsing by the first component.

9
10 **20.** (Previously Presented) The system of claim 19, wherein the
11 PdfTemplate is configured to support caching of objects to optimize PDF (portable
12 document format) structure.

13
14 **21.** (Previously Presented) A PPML (personalized print markup
15 language) to PDF (portable document format) converter for converting a PPML
16 document into a PDF document, comprising:

17 means for parsing structures within the PPML document;
18 means for generating a PDF document tree; and
19 means for interpreting the parsed structures from the PPML document onto
20 locations on the PDF document tree;
21 wherein the means for parsing, means for generating and the means for
22 interpreting are performed in part by operation of a processor.

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1 22. (Previously Presented) The PPML (personalized print markup
2 language) to PDF (portable document format) converter as recited in claim 21,
3 wherein the means for interpreting comprises:

4 means for un-marshalling a PPML instance, when a PPML tag set by the
5 means for parsing refers to an external object; and

6 means for embedding the external object into the PDF document.
7

8 23. (Previously Presented) The PPML (personalized print markup
9 language) to PDF (portable document format) converter of claim 21, additionally
10 comprising:

11 means for resolving references into assets for attachment to the PDF
12 document tree;

13 means for resolving fonts for access by the PDF document;

14 means for reutilizing PPML global objects for access by the PDF
15 document; and

16 means for reutilizing PPML global impositions for access by the PDF
17 document.
18

19 24. (Previously Presented) The system of claim 21, additionally
20 comprising:

21 means for resolving, for objects within the PPML (personalized print
22 markup language) document, a PPML SOURCE_TYPE class; and

23 means for translating the objects according to the PPML SOURCE_TYPE
24 class.
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2 **25.** (Previously Presented) A method for converting a PPML
3 (personalized print markup language) document into a PDF document,
4 comprising:

5 parsing structures within the PPML document;
6 generating a PDF document tree;
7 interpreting the parsed structures from the PPML document onto locations
8 on the PDF document tree; and
9 wherein the parsing, the generating and the interpreting are performed in
10 part by operation of a processor, which generates the PDF document.

11
12 **26.** (Previously Presented) The method of claim 25, wherein interpreting
13 the parsed structures comprises:

14 un-marshalling a PPML (personalized print markup language) instance,
15 when a PPML tag set during parsing refers to an external object; and
16 embedding the external object into the PDF (portable document format)
17 document.

18
19 **27.** (Previously Presented) The method of claim 25, wherein interpreting
20 the parsed structures comprises instructions for:

21 resolving references within the parsed structures into PDF (portable
22 document format) assets; and
23 incorporating the PDF assets into the PDF document.

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1 **28.** (Previously Presented) The method of claim 27, wherein resolving
2 references comprises instructions for:

3 resolving an image asset into an InputSource object using a PPML
4 (personalized print markup language) structure; and
5 incorporating the image asset into the PDF document.
6

7 **29.** (Withdrawn) A processor-readable medium comprising processor-
8 executable instructions for:

9 processing a PDF document to produce a PPML document, wherein the
10 processing comprises instructions for:

11 converting a PDF element within the PDF document into a variable
12 object;

13 generating a macro to contain rules governing operation of the
14 variable object; and

15 configuring the PPML document to include the variable object, the
16 macro and the PDF document, wherein the PDF document is configured as a
17 background within the PPML document; and

18 checking accuracy of the PPML document by producing a PDF document
19 from the PPML document.
20

21 **30.** (Withdrawn) The processor-readable medium of claim 29, wherein
22 checking accuracy comprises instructions for:

23 parsing structures within the PPML document;

24 generating a PDF document tree; and
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1 interpreting the parsed structures from the PPML document onto locations
2 on the PDF document tree.

3
4 31. (Withdrawn) The processor-readable medium of claim 29,
5 additionally comprising instructions for:

6 configuring a PDF document according to the PDF document tree; and
7 printing the PDF document.

8
9 32. (Previously Presented) A method for printing a PDF (portable
10 document format) file, comprising:

11 sending a PPML (personalized print markup language) file to a PPML to
12 PDF converter;

13 converting the PPML file into the PDF file, wherein the converting is
14 performed by operation of a processor and wherein the converting
15 comprises:

16 parsing and tagging items within the PPML file and translating the
17 tagged items;

18 generating a PDF document tree; and

19 interpreting the parsed structures from the PPML document onto
20 locations on the PDF document tree; and
21 printing the PDF file.

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1 **33. (Previously Presented)** A system for printing a PDF (portable
2 document format) file, comprising:

3 a PPML (personalized print markup language) to PDF converter,
4 configured to receive a PPML file and configured to create the PDF file by:

5 parsing structures within the PPML document;

6 generating a PDF document tree;

7 interpreting the parsed structures from the PPML document onto
8 locations on the PDF document tree; and

9 a printing device, to print the PDF file.

10
11 **34. (Previously Presented)** The system of claim 33, wherein the PPML
12 (personalized print markup language) to PDF (portable document format)
13 converter comprises:

14 a parsing and tagging component configured to parse the PPML file and
15 locate references to assets;

16 a translation component, to translate the assets located by the references;
17 and

18 a PDF tree-generating component, to generate a PDF tree to form the PDF
19 file according to the translated assets.
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